MIZUHO

SURGICAL TABLES

MODEL 7200B
OPERATORS MANUAL

10-04

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The extreme positioning capabilities of the 7200 Series Table requires special attention for possible interference points when using multiple function positioning. As with the operation of any surgical table, a certain amount of care should be exercised to position the patient safely. Although the thick pads and sheets substantially protect the patient, pinch points, located at the joints of the top section should always be considered. BE SURE THAT THE ARMS, HANDS AND FINGERS OF THE PATIENT AND THOSE OF THE OPERATING ROOM PERSONNEL ARE CLEAR OF ALL MOVING PARTS BEFORE MOVING THE TABLE. Proper restraints should always be used for patient safety.

Certain accessories such as the Armboards and X-Ray top can be damaged when changing the position of the table top sections. Always look first to see if a desired movement is going to interfere with any accessories in use.

The operator has the ultimate responsibility of preventing damage to the table and surrounding equipment or possible injury to the patient or staff.

The operator must ensure proper positioning is maintained to prevent compromizing respiration, nerve pathways or circulation.
In general, common sense will dictate when there is a potential hazard.

The following precautions should be reviewed by all personnel prior to operating the table.

A routine Instructional Program should be implemented by the facility for proper usage instructions for all personnel that may operate this table.

WARNING
Indicates a possibility of personal injury.

CAUTION
Indicates a possibility of damage to equipment.

NOTE
Indicates important facts or helpful hints.

WARNING

Prior to operating the table, observe all table caution labels and review the SPECIAL USER ATTENTION section in the front of this manual.

WARNING

Possible explosion hazard exists if table is used in the presence of FLAMMABLE ANESTHETICS.

NOTE

Pressing the Main Power Switch will turn the power to the table off.

NOTE

If the table is stored for a period greater than 6 months, the batteries should be removed and stored in a dry, clean condition at a storage temperature of 68° F (20° C). Batteries should be recharged every 6 months of product storage.

NOTE

When the indicator starts to blink (indicating low power in battery) the table will operate for approximately 5 continuous minutes, typically long enough to use the table for the rest of the day.

NOTE

The charging system operates ONLY when the table is in AC120V operation mode.
The table can be operated on 120VAC power while the battery is being recharged.

WARNING

DO NOT unlock brakes when a patient is on the table. An uneven patient weight load may cause instability. Potential pinch and/or crush hazard exists

WARNING

To maximize patient safety, utilize proper restraint methods during extreme Trendelenburg positioning modes.

WARNING

To avoid injury to surgical staff or damage to the table, use extreme care when attempting full Trendelenburg positioning while the table top is in a low position. Some table positions will allow the head section of the table to contact the floor.

WARNING

To maximize patient safety, utilize proper restraint methods during extreme lateral tilt positioning.

WARNING

Potential pinch and/or crush hazard exists if hands or fingers are placed between edges of back and seat secrion frames or side rails during extreme back section positioning.

WARNING

Potential pinch and/or crush hazard exists if hands or fingers are placed in gear mechanism (under back section) during back section positioning.

WARNING

Potential pinch and/or crush hazard exists if hands or fingers are placed between elevation sections or elevation sectons and base during elevation-down positioning.

WARNING

Potential pinch and/or crush hazard exists if hands or fingers are placed between the edges of seat and leg sections when leg sections are raised or lowered.

CAUTION

Do not sit on end of leg sections as damage may result.

WARNING

Consult manufacturer's instructions when using high frequency surgical equipment, cardiac defibrillator and cardiac defibrillator monitors.

WARNING

When an antistatic pathway is required, the table has to be used on an antistatic floor.

WARNING

The antistatic properties of the table are dependent on the use of the original pad set which was furnished with the table or an alternate approved replacement.

NOTE

Always follow current AORN Journal Guidelines to ensure proper cleaning and disinfection procedure.

WARNING

Always follow OSHA blood-borne pathogens standards for protective clothing, including gloves, masks and eye protection when cleaning the surgical table.

CAUTION

Thoroughly read and follow the manufacturer's directions for all cleaning fluids. DO NOT use cleaners containing phenolics.

CAUTION

When using spray cleaners DO NOT spray fluids directly into electrical receptacles or micro switches.

CAUTION

Before replacing pads on the table, make sure the pads and all mating surfaces are completely dry. Moisture trapped between the pads and mating surfaces may cause distortion of table tops.

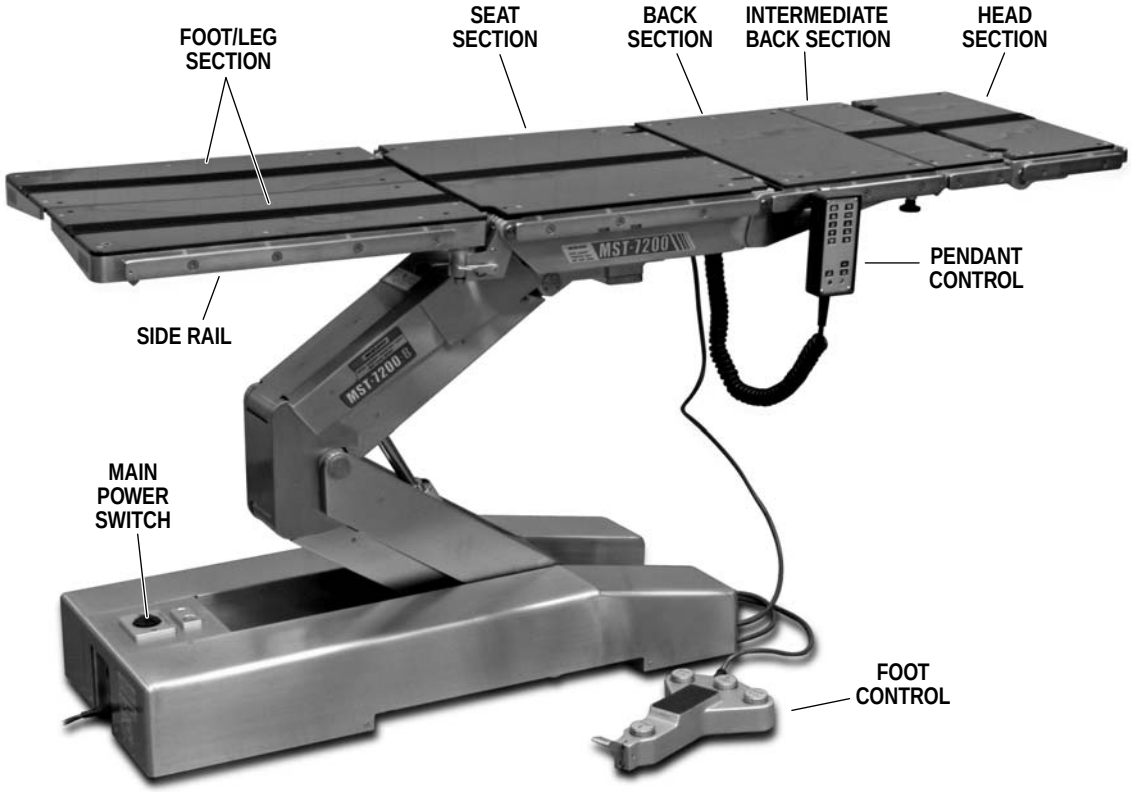

Figure 1-1. 7200B Micro-Surgery Operating Table

1-1. General

Model 7200B Micro-Surgery Operating Table is electro-hydraulically operated and designed for the stability, posturing capabilities and precision movement required for sensitive surgical procedures. See figure 1-1.

The hand-held control operates the floor lock/brake system and the positioning functions for Trendelenburg, lateral-tilt, back section, elevation and speed selection.

Manual controls are provided for head section positioning, back section extension and the split leg section operations.

1-2. Power Requirements

The Model 7200B Micro-Surgery Operating table requires a 120VAC, 60 Hz electrical power supply. The table is equipped with a 20 foot long power cord with a standard three prong, hospital grade plug. Electrical circuit protection is provided by two 10 Amp fuses. The foot operated, main power switch is located on top of the foot end of the base. See figure 1-2.

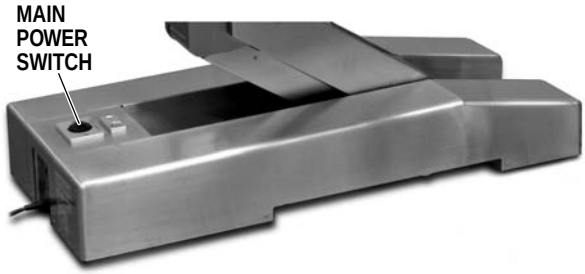

Figure 1-2. Main Power Switch

1-3. Pendant Control Unit

The hand-held pendant control unit (figure 1-3) has a non-slip rubber cover which assures a positive grip during use. A spring clip hanger is located on the back of the unit. This allows storage of the unit on the table side rails.

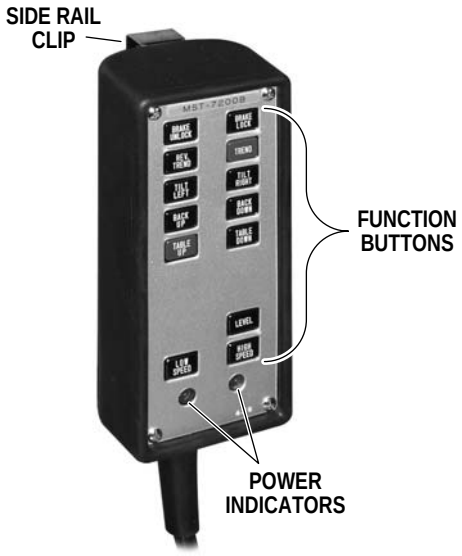

Figure 1-3. Pendant Control Unit

The function push buttons are identified with descriptions for all functions. See figure 1-4.

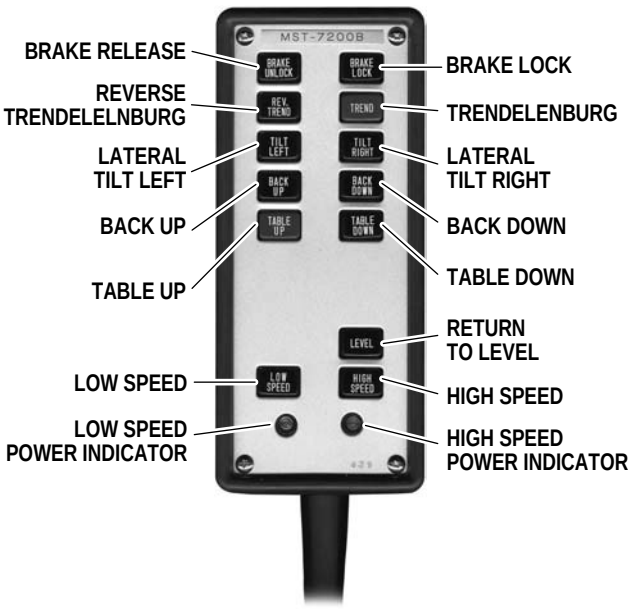

Figure 1-4. Pendant Control Unit Functions

1-4. Foot Control Unit

The foot control unit allows the surgeon to control the table. See figure 1-5. The four buttons activate the Trendelenburg and Lateral Tilt movement and the return lever allows a one touch procedure to return the table top to a level position.

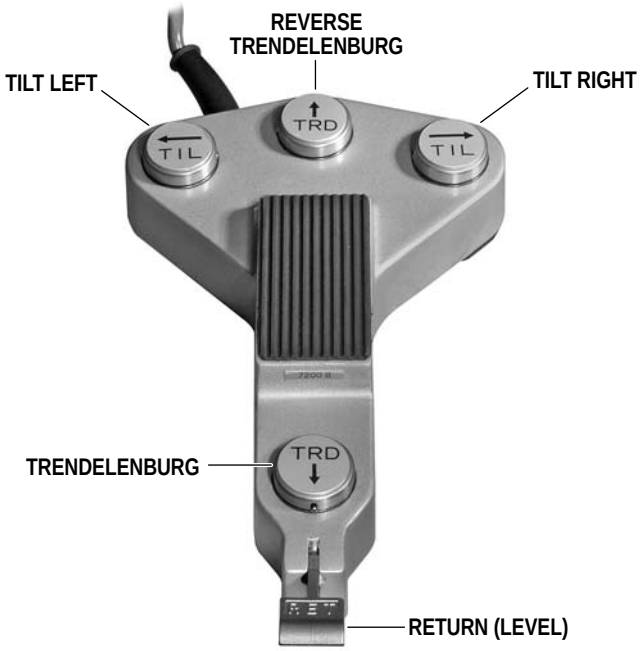

Figure 1-5. Foot Control Unit

2-1. Electrical Power

WARNING

Prior to operating the table, observe all table caution labels and review the SPECIAL USER ATTENTION section in the front of this manual.

WARNING

Possible explosion hazard exists if table is used in the presence of FLAMMABLE ANESTHETICS.

a. Be sure the power cord is attached to the table and plugged into a properly grounded, Hospital Grade, 120VAC outlet. Make sure the power cord is routed to the outlet to prevent it from being in the way of operating personnel.

b. Depress "Main Power ON/OFF" switch located on top of the foot end of the base. See figure 2-1. A green indicator light on the pendant control unit should now be illuminated.

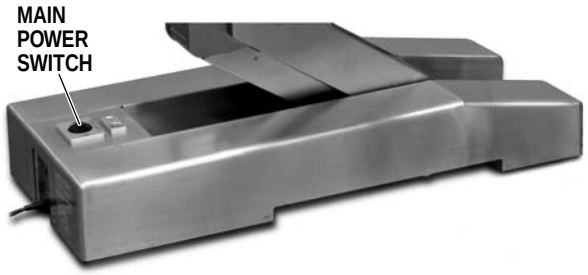

Figure 2-1. Main Power Switch

2-2. Battery Power

To operate the table on battery power, disconnect the power cord and operate the controls normally.

To extend the battery charge life, turn the Main Power Switch OFF when the table is not going to be used.

2-3. Automatic Shut-Off

a. To prevent unnecessary discharge of the battery, a timer is built into the battery circuit. This timer will automatically shut the battery power OFF after 1½ hours of table inactivity.

b. To turn the table ON again, press any button on the pendant control, a green indicator light will illuminate.

NOTE

Pressing the Main Power Switch will turn the power to the table off.

2-4. Charging the Battery

Batteries should be charged:

- When the table is placed into initial service
- As indicated by amber indicator light blinking
- Every week in normal service

NOTE

If the table is stored for a period greater than 6 months, the batteries should be removed and stored in a dry, clean condition at a storage temperature of 68° F (20° C). Batteries should be recharged every 6 months of product storage.

a. If the battery needs to be charged when operating the table on battery power, the amber indicator light will begin to blink. At this time the battery needs to be recharged.

NOTE

When the indicator starts to blink (indicating low power in battery) the table will operate for approximately 5 continuous minutes, typically long enough to use the table for the rest of the day.

NOTE

The charging system operates ONLY when the table is in AC120V operation mode.
The table can be operated on 120VAC power while the battery is being recharged.

b. To recharge the battery, make sure the power cord is attached to the table and plugged into a 120VAC wall outlet and turn the main POWER SWITCH - ON. The green CHARGE LAMP will illuminate.

c. A full battery charge will last approximately 2 weeks under normal operating conditions. However, it is recommended to charge the batteries at the end of each week to establish a normal routine protocol. Lead acid batteries last longer if they are not permitted to fully discharge. The table features (2) 12 volt, sealed, lead acid batteries which require no manual maintenance. Lead acid gel batteries, under a proper charging program, feature an approximate normal life of 4 years.

2-5. Positioning Functions

The hand-held pendant control (figure 2-2) activates the following table functions:

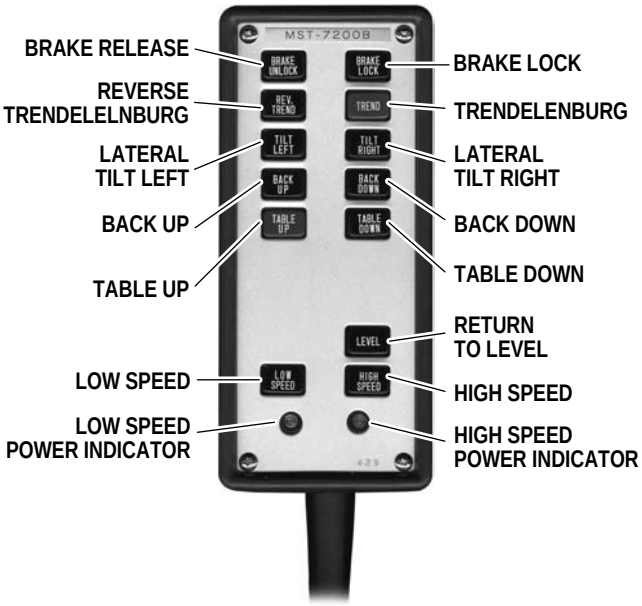

Figure 2-2. Pendant Control

a. Speed Selection. Normal table positioning functions should be done with the control system in the high speed mode. Low speed operation is mainly used for movement during microscope procedures. To place the system in high speed, depress the HIGH SPEED button. See figure 2-3. The high speed indicator light should be illuminated.

To place the system in low speed, depress the LOW SPEED button. See figure 2-4. The low speed indicator light should be illuminated.

Figure 2-3. High Speed Function

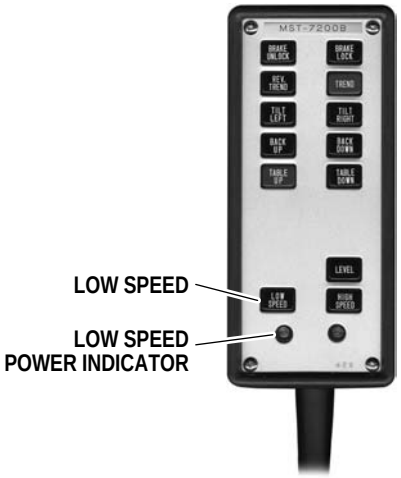

Figure 2-4. Low Speed Function

WARNING

DO NOT unlock brakes when a patient is on the table. An uneven patient weight load may cause instability. Potential pinch and/or crush hazard exists if feet are placed under the table base when floor lock/brakes are released.

b. Floor Lock/Brake System. The floor lock/brake system consists of four hydraulic cylinders which raise and support the table base off from the castors. To activate the brakes, press the BRAKE LOCK button (figure 2-5.) and hold for 6-8 seconds to allow full extension of the cylinders.

To allow the table to be moved, release the brake system by pressing the BRAKE UNLOCK button. See figure 2-6. Hold the button for approximately 6-8 seconds to allow the brake cylinders to fully retract.

Figure 2-5. Brake System Function

Figure 2-6. Brake Release Function

WARNING

To maximize patient safety, utilize proper restraint methods during extreme Trendelenburg positioning modes.

WARNING

To avoid injury to surgical staff or damage to the table, use extreme care when attempting full Trendelenburg positioning while the table top is in a low position. Some table positions will allow the head section of the table to contact the floor.

c. Trendelenburg. To place the table in a Trendelenburg (head down) position, press the TREND button. See figure 2-7. Tilt of up to 45° may be obtained.To place the table in a reverse Trendelenburg (head up) position, press the REV TREND button. See figure 2-8. Tilt of up to 20° may be obtained.

Figure 2-7. Trendelenburg Positioning

Figure 2-8. Reverse Trendelenburg Positioning

WARNING

To maximize patient safety, utilize proper restraint methods during extreme lateral tilt positioning.

d. Lateral Tilt. To achieve lateral tilt right (as viewed from the head end of the table), press the TILT RIGHT button. See figure 2-9. Tilt of up to 25° may be obtained. To achieve lateral tilt left, press the TILT LEFT button. See figure 2-10. Tilt of up to 25° may be obtained.

Figure 2-9. Lateral Tilt-Right (front view)

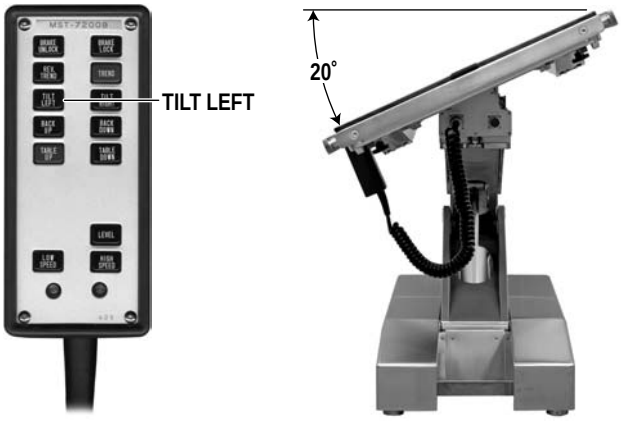

Figure 2-10. Lateral Tilt-Left (front view)

Figure 2-12. Back Section - Down

WARNING

Potential pinch and/or crush hazard exists if hands or fingers are placed between edges of back and seat secrion frames or side rails during extreme back section positioning.

WARNING

Potential pinch and/or crush hazard exists if hands or fingers are placed in gear mechanism (under back section) during back section positioning.

e. Back Section. To raise the back section, press the BACK UP button. See figure 2-11. The back section will raise up to 90° above horizontal. To lower the back section, press the BACK DOWN button. See figure 2-12. The back section will go down to 30° below horizontal.

Figure 2-11. Back Section - Up

WARNING

Potential pinch and/or crush hazard exists if hands or fingers are placed between elevation sections or elevation sectons and base during elevation-down positioning.

f. Elevation. To raise table top, press the TABLE UP button. See figure 2-13. The table will raise to a maximum height of 40.5" To lower the table top, press the TABLE DOWN button. The table top will go down to a minimum height of 16".

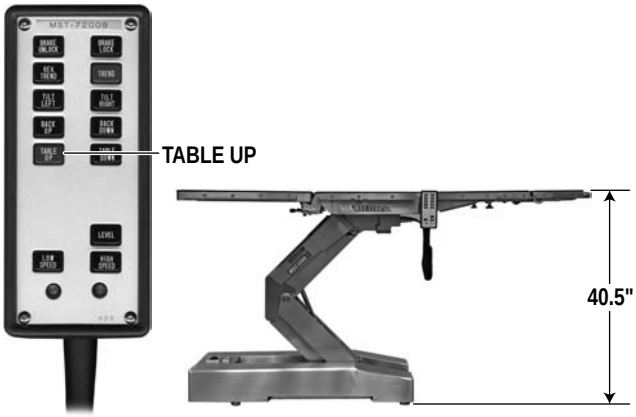

Figure 2-13. Elevation -Up

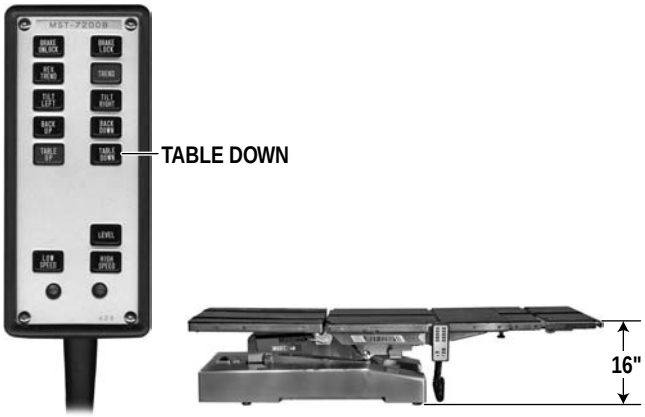

Figure 2-14. Elevation - Down

g. Return. Pressing the LEVEL button will place the tabel in a level position. See figure 2-15.

Figure 2-15. Return Function

2-6. Foot Control

The foot control is provided for surgeon control of the table top Trendelenburg and lateral tilt functions. See figure 2-16.

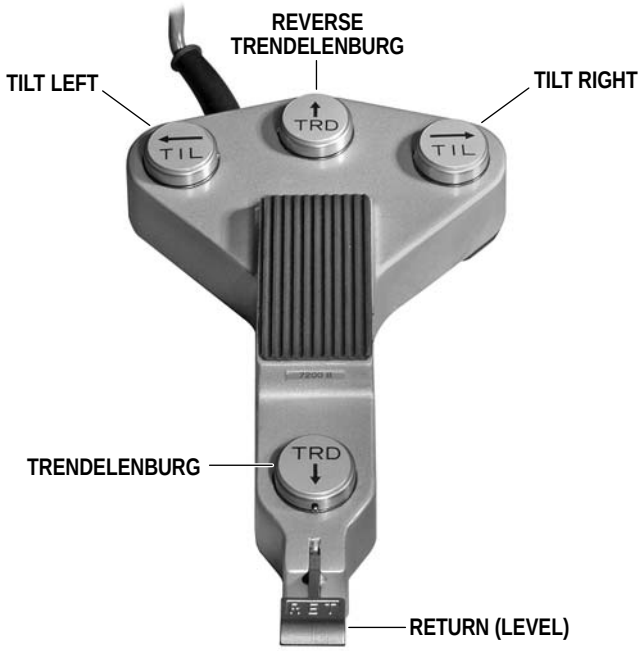

Figure 2-16. Foot Control Function

a. Lateral Tilt is achieved by pressing either the Lateral-Right or Lateral-Left button as desired. Movement of up to 25° may be obtained.

b.Trendelenburg positioning is achieved by pressing either the Trendelenburg or Reverse Trendelenburg buttons.Movement of up to 45° TREND, 20° REV TREND may be obtained.

c. The return lever, when depressed, automatically returns the table top to level position.

d. Speed Selection. The speed of the table movements can be changed with the High Speed/ Low Speed functions of the pendant control. See figure 2-17. Low speed should be selected for precise positioning when using the foot control.

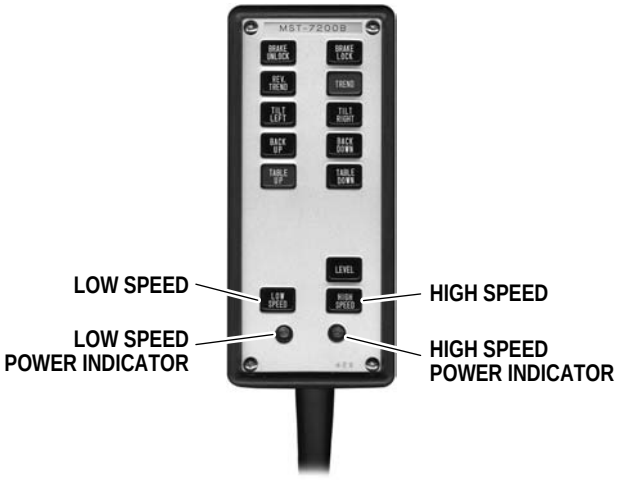

Figure 2-17. Speed Control Function

2-7. Head Section

a. A quick release positioning bar located under and to the front of the head section (figure 2-18) is used to raise or lower the head section. Pull the release bar toward the head end to allow the section to pivot up or down. Positioning from 60° above horizontal to 90° below horizontal in 15° increments is available. Release the bar to lock the head section in position.

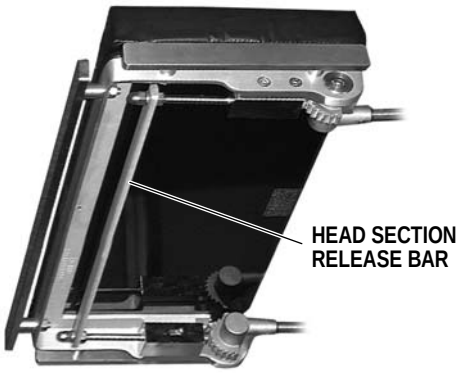

Figure 2-18. Head Section

By loosening two locking knobs beneath the back section, an additional 3" of longitudinal adjustment can be achieved. If desired, the head section may be removed by loosening the locking knobs and pulling it straight out of the back section.

2-8. Intermediate Back Section

The intermediate back section, located between the head section and main back section, is secured with two locking knobs located under the back section. See figure 2-19. By loosening the two locking knobs, an additional 3" of longitudinal extension can be achieved. If desired, the intermediate back section may be removed by loosening the locking knobs and pulling the section straight out of the back section.

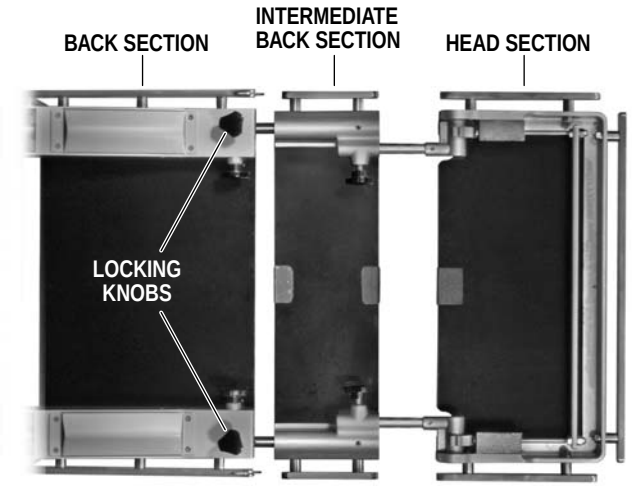

Figure 2-19. Intermediate Back Section

An additional set of locking knobs and guide holes in the main back section allow the head section to be reattached with the intermediate back section removed. See figure 2-20.

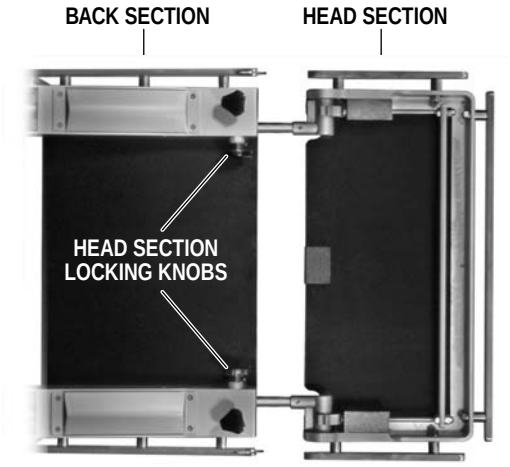

Figure 2-20. Intermediate Back Section Removal

2-9. Leg Section

The table has movable, split-leg sections. The individual sections can be rotated both vertically and horizontally. To reposition a section vertically, lift up slightly on the leg section side rail and press the VERTICAL ADJUSTMENT LEVER. See figure 2-21. The positioning range is from 50° above horizontal to 45° below, in 15° increments.

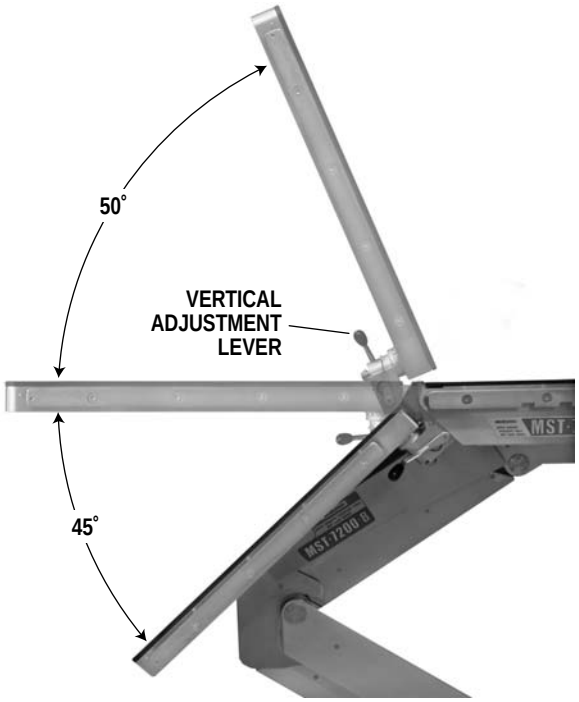

Figure 2-21. Leg Section Vertical Positioning

WARNING

Potential pinch and/or crush hazard exists if hands or fingers are placed between the edges of seat and leg sections when leg sections are raised or lowered.

To reposition the leg section horizontally, press and hold the HORIZONTAL ADJUSTMENT LEVER (figure 2-22.). Position leg section as desired and release the HORIZONTAL ADJUSTMENT LEVER. To remove the leg section, press and hold the HORIZONTAL ADJUSTMENT LEVER and lift the leg section up to remove it.

CAUTION

Do not sit on end of leg sections as damage may result.

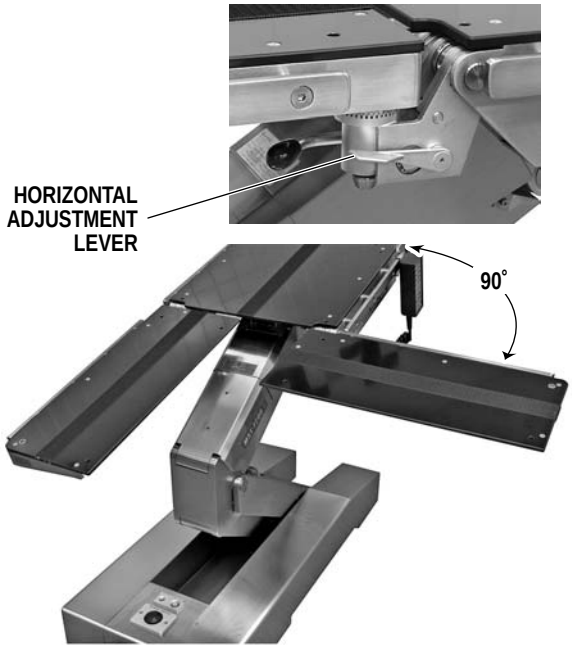

Figure 2-22. Leg Section Horizontal Positioning

WARNING

Consult manufacturer's instructions when using high frequency surgical equipment, cardiac defibrillator and cardiac defibrillator monitors.

WARNING

When an antistatic pathway is required, the table has to be used on an antistatic floor.

WARNING

The antistatic properties of the table are dependent on the use of the original pad set which was furnished with the table or an alternate approved replacement.

3-1. Preventive Maintenance

The following preventive maintenance checks and services are recommended to ensure the serviceability and proper operation of your Surgical Table, and should only be performed by qualified trained personnel.

a. During normal cleaning, a general visual examination should be made checking for leaks, loose bolts or parts, and cracked, chipped, or missing paint. Any necessary repairs should be made.

b. Semi-annually the following checks and services should be performed:

1. Check all hydraulic fittings, mini-valves and slave cylinders for proper operation and any signs of leaks.
2. Check the hydraulic speed controls and adjust if necessary.
3. Pressure check (with a gauge) the pressure relief valve.
4. Check all mechanical adjustments and adjust as necessary.
5. Check hydraulic fluid level.
6. Lubricate the slider assembly.
7. Check function of foot leg adjustment levers. Lubricate as necessary.

3-2. Cleaning Recommendations

NOTE

Always follow current AORN Journal Guidelines to ensure proper cleaning and disinfection procedure.

The following procedures should be followed when cleaning the surgical table between cases.

Place table top in level position prior to starting cleaning procedure.

WARNING

Always follow OSHA blood-borne pathogens standards for protective clothing, including gloves, masks and eye protection when cleaning the surgical table.

Remove major contaminants from the table with disposable materials following appropriate biohazard waste disposal procedures.

Remove all table pads and place them on a flat surface for cleaning.

CAUTION

Thoroughly read and follow the manufacturer's directions for all cleaning fluids. DO NOT use cleaners containing phenolics.

Apply cleaning fluid liberally to top and sides of each pad and wipe with a clean lint-free cloth.

Using a clean, damp, lint-free cloth, wipe the pads to remove the cleaning fluid.

Using a clean, dry, lint-free cloth, wipe the pads to remove all moisture.

Repeat the steps to clean the bottom of the each pad.

CAUTION

When using spray cleaners DO NOT spray fluids directly into electrical receptacles or micro switches.

Repeat cleaning procedure for all table surfaces including the top, sides, elevation column, base and all accessories.

CAUTION

Before replacing pads on the table, make sure the pads and all mating surfaces are completely dry. Moisture trapped between the pads and mating surfaces may cause distortion of table tops.

When the cleaning procedure is complete, replace all pads and accessories as applicable.

Remove pendant control from table side rail and apply cleaning solution to the pendant control and cord.

Use a clean cloth dampened with water to remove cleaning solution.

Use another clean damp cloth to remove any remaining residue.

Install pendant control on side rail for storage when cleaning procedure is complete.